

## EHPB Series

- EVOTEK Manifold mounted Ball Valves



### Product Description

- Operating pressure up to 500 bar
- DN up to 50
- Application in general hydraulics, wood working machinery, lathes, manifolds
- All ball valves can be supplied with the following options: Actuator, Limit controls & Lock

### Technical Specifications

Standard Connections Styles:

Manifold mounting

Construction:

Block body design

Type of construction:

Shut-off device is a ball

Nominal pressure:

PN 350 bar up to PN 500 bar (according to dimension table)

Operating fluids:

Oils, petroliferous and petrochemical products

Operating temperature range:

-20°C to 100°C

Standard Material

Body:

Carbon Steel

Ball:

Carbon Steel

Stem:

Carbon Steel

Lever:

Zinc Alloy Bent (DN 06 to 25)

Steel Straight (DN 06 to 25)

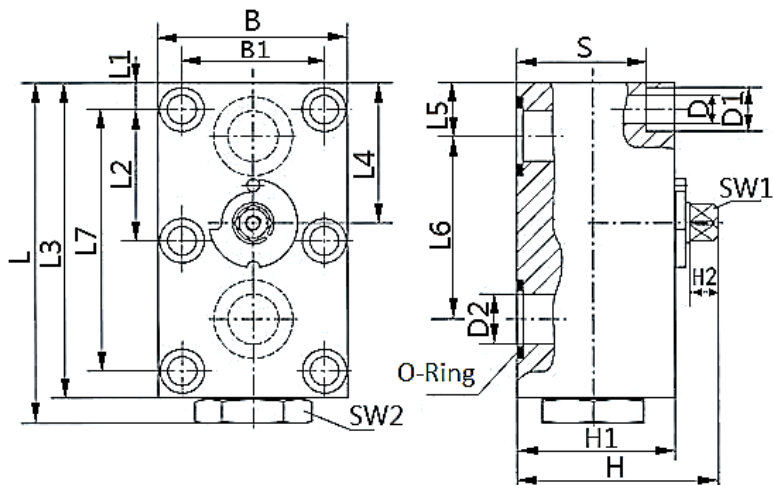
Steel Bent (DN 32 to 50)

Ball seat:

POM

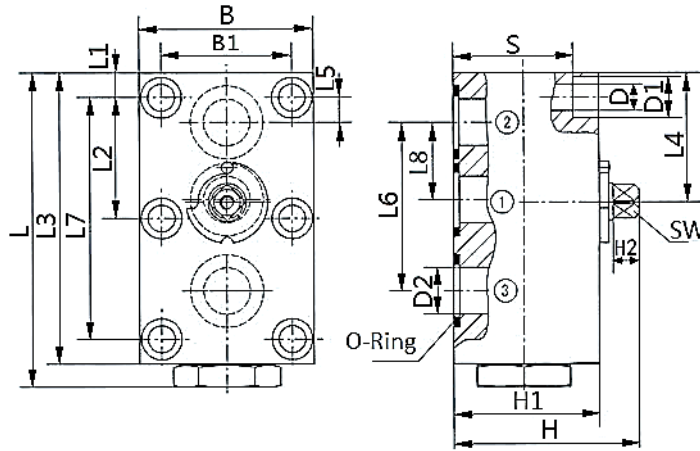
O-rings:

NBR/FKM



| Type     | DN | L   | L1   | L2   | L3  | L4   | L5   | L6  | L7  | B   | B1  |
|----------|----|-----|------|------|-----|------|------|-----|-----|-----|-----|
| EHPB2-06 | 6  | 64  | 8.5  | -    | 59  | 25   | 8.5  | 35  | 35  | 40  | 27  |
| EHPB2-10 | 10 | 80  | 8    | 27.5 | 71  | 29.5 | 10.5 | 44  | 55  | 56  | 40  |
| EHPB2-16 | 16 | 110 | 8.5  | 41.5 | 100 | 43.5 | 17   | 58  | 83  | 62  | 45  |
| EHPB2-20 | 20 | 127 | 10   | 48.5 | 117 | 51   | 20   | 69  | 97  | 70  | 51  |
| EHPB2-25 | 25 | 145 | 10   | 57.5 | 135 | 62   | 24   | 81  | 115 | 80  | 60  |
| EHPB2-32 | 32 | 177 | 12   | 68   | 165 | 75   | 29   | 96  | 136 | 100 | 78  |
| EHPB2-40 | 40 | 192 | 28.5 | 56   | 180 | 85.5 | 28.5 | 112 | 112 | 130 | 95  |
| EHPB2-50 | 50 | 245 | 38   | 68   | 220 | 106  | 38   | 136 | 136 | 149 | 112 |

| Type     | SW1 | SW2 | H    | H1  | H2 | D    | D1   | D2  | S  | O-ring | PN(bar) |
|----------|-----|-----|------|-----|----|------|------|-----|----|--------|---------|
| EHPB2-06 | 9   | 22  | 39   | 30  | 6  | 6.6  | 11   | 6   | 23 | 12x1.9 | 500     |
| EHPB2-10 | 9   | 30  | 54.5 | 42  | 8  | 9    | 13.5 | 9.5 | 33 | 16x2.4 | 500     |
| EHPB2-16 | 12  | 36  | 67.5 | 50  | 11 | 9    | 13.5 | 16  | 41 | 25x2.4 | 420     |
| EHPB2-20 | 14  | 41  | 80   | 62  | 12 | 10.5 | 16.5 | 20  | 51 | 30x3.1 | 350     |
| EHPB2-25 | 14  | 50  | 86   | 67  | 12 | 10.5 | 16.5 | 25  | 56 | 35x3.1 | 350     |
| EHPB2-32 | 17  | 65  | 110  | 90  | 14 | 13   | 19   | 32  | 77 | 40x3.1 | 350     |
| EHPB2-40 | 17  | 75  | 120  | 100 | 14 | 17.5 | 26   | 38  | 82 | 50x3.1 | 350     |
| EHPB2-50 | 17  | 75  | 130  | 110 | 14 | 22   | 33   | 48  | 88 | 60x3.1 | 350     |



| Type     | DN | L   | L1   | L2   | L3  | L4   | L5  | L6  | L7  | L8   | B   | B1  | SW |
|----------|----|-----|------|------|-----|------|-----|-----|-----|------|-----|-----|----|
| EHPB3-06 | 06 | 64  | 8.5  | -    | 59  | 25   | 0   | 35  | 35  | 17.5 | 40  | 27  | 9  |
| EHPB3-10 | 10 | 80  | 8    | 27.5 | 71  | 29.5 | 2.5 | 44  | 55  | 19   | 56  | 40  | 9  |
| EHPB3-16 | 16 | 110 | 8.5  | 41.5 | 100 | 43.5 | 8.5 | 58  | 83  | 26.5 | 62  | 45  | 12 |
| EHPB3-20 | 20 | 127 | 10   | 48.5 | 117 | 51   | 10  | 69  | 97  | 32   | 70  | 51  | 14 |
| EHPB3-25 | 25 | 145 | 10   | 57.5 | 135 | 62   | 14  | 81  | 115 | 38   | 80  | 60  | 14 |
| EHPB3-32 | 32 | 177 | 12   | 68   | 165 | 75   | 17  | 96  | 136 | 46   | 100 | 78  | 17 |
| EHPB3-40 | 40 | 192 | 28.5 | 56   | 180 | 85.5 | 0   | 112 | 112 | 56   | 130 | 95  | 17 |
| EHPB3-50 | 50 | 245 | 38   | 68   | 220 | 106  | 0   | 136 | 136 | 68   | 149 | 112 | 17 |

| Type     | H    | H1  | H2 | D    | D1   | D2  | S  | O-ring | PN(bar) |
|----------|------|-----|----|------|------|-----|----|--------|---------|
| EHPB3-06 | 39   | 30  | 6  | 6.6  | 11   | 6   | 23 | 12x1.9 | 500     |
| EHPB3-10 | 54.5 | 42  | 8  | 9    | 13.5 | 9.5 | 33 | 16x2.4 | 350     |
| EHPB3-16 | 67.5 | 50  | 11 | 9    | 13.5 | 16  | 41 | 25x2.4 | 350     |
| EHPB3-20 | 80   | 62  | 12 | 10.5 | 16.5 | 20  | 51 | 30x3.1 | 350     |
| EHPB3-25 | 85   | 67  | 12 | 10.5 | 16.5 | 25  | 56 | 35x3.1 | 350     |
| EHPB3-32 | 110  | 90  | 14 | 13   | 19   | 32  | 77 | 40x3.1 | 350     |
| EHPB3-40 | 120  | 100 | 14 | 17.5 | 26   | 38  | 82 | 50x3.1 | 350     |
| EHPB3-50 | 130  | 110 | 14 | 22   | 32   | 48  | 88 | 60x3.1 | 350     |

Attention:

Hydraulic oil can flow into the valve through port "1" !

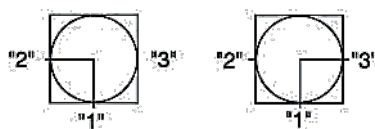
The valve can only be sealed under two specific situations.

(1) Pressure at the closed port is zero.

(2) Pressure at the closed port is lower than at the two open ports.

Function diagram

L type 90° reversing



# EVOTEK Manifold mounted Ball Valves

## Order Codes

| Ball Valve Series | A | - | B  | - | C | - | D  | - | E | F | G |
|-------------------|---|---|----|---|---|---|----|---|---|---|---|
| EHPB              | 3 | - | 06 | - | B | - | 02 | - | C | C | M |

Select the code for each ball valve feature according to your requirements and place it in the sequence (see example above) to create the corresponding product order code.

### A Number of Ports

|   |                                    |
|---|------------------------------------|
| 2 | Two Ports (Two-Way Ball Valve)     |
| 3 | Three Ports (Three-Way Ball Valve) |

### B Connection Size

|    |                              |
|----|------------------------------|
| 06 |                              |
| 10 |                              |
| 16 |                              |
| 20 | according to dimension table |
| 25 |                              |
| 32 |                              |
| 40 |                              |
| 50 |                              |

### C O-Ring Material

|   |      |
|---|------|
| B | NBR  |
| V | FKM  |
| E | EPDM |

### D Lever Options

|    |                               |
|----|-------------------------------|
| 02 | Zinc Alloy Bent (DN 06 to 25) |
| 03 | Steel Straight (DN 06 to 25)  |
| 04 | Steel Bent (DN 32 to 50)      |

### E Body and Connection Material

|   |                 |
|---|-----------------|
| C | Carbon Steel    |
| S | Stainless Steel |

### F Ball / Stem Material

|   |                 |
|---|-----------------|
| C | Carbon Steel    |
| S | Stainless Steel |

### G Ball Seat Material

|   |      |
|---|------|
| M | POM  |
| E | PTFE |
| K | PEEK |